

2007 PACIFIC AVIATION DIRECTOR'S WORKSHOP

MARCH 26-29, 2007

**BAI RA CHAMAYONG CULTURAL CENTER
KOROR, REPUBLIC OF PALAU**



A CASE STUDY: AIRCRAFT WATER RESCUE PLAN

for

AMATA KABUA INTERNATIONAL AIRPORT

Operated By The

RMI PORTS AUTHORITY

MAJURO, REPUBLIC OF THE MARSHALL ISLANDS

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AIRPORT OVERVIEW

- **CONFIGURATION**
- **AIR CARRIER ACTIVITY**
- **ARFF INDEX**
- **ARFF PROGRAM**
- **FAR PART 139**
- **WEATHER & MARINE CONDITIONS**









AIRCRAFT WATER RESCUE PLAN OVERVIEW

- **TASK 1: COMPREHENSIVE INVENTORY**
- **TASK 2: ASSESSMENT OF EXISTING CONDITIONS**
- **TASK 3: RECOMMENDED WATER RESCUE PLAN**
- **TASK 4: IMPLEMENTATION PLAN**
- **TASK 5: WATER RESCUE PLAN FOR THE AEP**



KEY ISSUES

- **MUTUAL AID PARTICIPATION**
- **COORDINATION – NEW ARFF STATION**
- **AIRPORT EMERGENCY PLAN (AEP)**
- **FAR PART 139**
- **MARINE CONDITIONS & WEATHER**
- **SECURITY**
- **COMMUNICATIONS**
- **AIRPORT EMERGENCY COMMITTEE**
- **FLIGHT PROCEDURES**









TASK 1 – COMPREHENSIVE INVENTORY

- **Comprehensive inventory of existing/relevant conditions at AKIA and other areas on Majuro Atoll. Objective is to ascertain and/or verify existing information on those aspects that will directly and indirectly impact the formulation of a preferred AWRP. Subjects documented included – but were not limited to:**
 - **Relevant FAA regulations and advisory circulars**
 - **ARFF resources at AKIA**
 - **Critical aircraft & forecasts of aviation demand**
 - **Airport security**
 - **Marine & weather conditions**
 - **Mutual-Aid resources and agreements**







TASK 2 – ASSESSMENT OF EXISTING CONDITIONS

- **Assessment of key issues relevant to the development of an effective AWRP. Provided the basis for a series of conclusions of the existing situation and what aspects were in need of attention. Included the capabilities of the entire emergency response ‘community’ with regard to their ability to effectively respond to an aircraft water accident.**
- **Although results of this task provided the basis for the formal development of an AWRP, this task was a discussion of existing capabilities and/or deficiencies as they related to aircraft water rescue.**



TASK 3 – RECOMMENDED WATER RESCUE PLAN

- **Based upon tasks 1 and 2, this task considered – conceptually – what the AWRP for AKIA should entail. This task addressed:**
 - **Type and size of rescue boat**
 - **Boat storage and location alternatives**
 - **Boat launch**
 - **Related water rescue equipment**
 - **Mutual-Aid agreements and agency roles**
 - **Communications**
 - **Water rescue training program**
 - **Transfer/triage points for the rescued**





Site 1-by new hangar on
new landfill; midpoint of
runway; preferred site.

Site 2-across from fuel
depot and on new landfill.

Site 3-by old hangar; and
near fuel depot..







TASK 4 – IMPLEMENTATION PLAN

- Based upon tasks 1, 2, and 3, an implementation plan was developed with preliminary estimated costs. This plan included:
 - Rescue boat, trailer and tow vehicle
 - Launch ramp and tie-down floating dock
 - Electrical feed to the launch ramp/floating dock
 - Water feed to launch ramp/floating dock
 - Security gates and automatic traffic lights
 - Breakwater
 - Navigation lights at the floating dock & breakwater

The work included a plan view and section of the launch ramp and floating dock, as well as a suggested boat storage area in the new ARFF station.



TASK 5 – WATER RESCUE PLAN FOR AEP

- **Living document was developed and formatted for inclusion in the AEP, which included a template for Mutual-Aid agreements, as well as a check list for the Certification Inspector to follow in his/her review of the AWRP section in AEP.**
- **When airport safety is involved, be proactive not reactive.**

Thank you.

